Paper March 1814 W. S. H 39 Eldred WAMabbulg Frederick Sour Mayland

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Milliano Bradby Tyler, M. D. Whis is respectfully dedicated, as but a small bubut for the many services to has rendered

The consideration of this disease has receited the peris of the most able more in the preference, and hought forth the receitions of others, in every respect well calculated to dispress the surrounding mists of the most intricate points, so as to render them comperhensible to the more ordinary capagacities,

This med not excite our surprise when we reflect, on the importance of the organo and the entinence unfluence which it cents over the humane system, and that in the thicky of morbid anatomy, we have the Line so often exhibited, disorganized in the union and decauged in function, a slight review, also of the cleaners premiero to the country in which were live, with enable us to ascertain that this is not the least frequents affection, with which the american

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practioner has to contrud,

On this subject, I shall not for tend
to offer any thing, new, - such an attrough, in sur, would be really, obsuid
particularly at this late privad and
after this subject has been to ally
considered by such grutterness, as above

discribed,
View of dieries, unlike founded on an internation and prinction; the effect of diranger ment and also the liability of an organ or had affective from configure or sympathy; cannot properly be correct, and willo not in the gruenality of cases, conduct us to happy, terminations,

It may not, Therefore, Iam persuade, be anip to premise a short account

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of the Situation and Structure of the Siver, the better to understand the offenious deduced therefrom, respecting the diseases to which derangement in it structure and function give rice.

The Live is the layest organ and I may add, one of the most important glands, in the body - he proportion to its sign is it importance and connection extrusion throughout the whole system.

his important organ is found setuated, principally, in the upper autum and later see part of the addomine occur paying, completely, the right oblighochron drium, the superior portion of the Efigartie and a small party spart of the left oblighochrondriae regions.

In the Fatus, the seat of the Liver is found to differ efectially, from that

of the idult. In the Pates it is observed to occupy, some of the left side
than of the right, about this him it is
found occupying nearly, as succh of the
left as the right dry prehondrium; grandually, as the child advances in years, change
ing its position from left to right, until
the fifth as light year, when it is serve
side above as above discribed; from which
it is not removed during life, autiful

The Live is smooth, uniform and course, on its uppro Surface; on the lowering ular and concern. Its superior surface is in alose contact with the converty, of the Diaphrogne. Its margin, in the Halus, is in contact with the abdominal sureseles, because it falls town than the margin of the ribs. Its inferiorcon-

<sup>+</sup> So the discription of the Situation of the adust.

dee the discriplion

can surface receives the course portions of the stomach, Dudrum and Colon.

I healthy adult Sime more extends lower than the margin of the ribs, except about the pit of the stomach, but
in the Talus, as already observed, it wite
be found quite different. about the Third
or fourth mouth in the Talus, it wite be
from to file mary the whole superior
portion of the carry of the abdomner.
In short it returns to the unbidious, course
the stomach, and is in contact with
the stlemach, and is in contact with

the Eighth month hings with it the elevelopment and growth of the other parts in proportion, about this time the Hernum begins to lengther, the concents of the Diaphragno is

increased; thereby, enabling the Liver to retire beneath the miningin of the The reflection of the peritoneuno from the Surrounding parts whom the Liver forms its supporting ligaments, however, the Live is not petained in its natural situation by these ligament alone, for the abdominal muscles, as is the case with all the viscera contained within the abdominal cavity, give The chief Support to that viscus, It also receives additional support from The Vena Cava, which receives Two or Three views directly from its sub =

The Good Suspensory or falciforms ligament is composed of Two lamina of Brilonrum, which desorneds, from the Middle of the Disphuyno

as live bearenth the micarian of the The implication of the Portenzuero

and end of the sternano, to the Superior courses surface of the Liver; it is then reflected to each side, to form the upper smooth coat, The round or un bilical ligament of the Liver is formed, by the de= generation of the coats of the um bilical view, which conveyed the flored blood from the placenta into the veins of the Liver and Systems of the Fater. It may be traced in its passage from the umbiliaus, along the peritoneum, into the duplica turo of the boad ligament, and into the Fossa umbiliaalis. The pasterior surface of the Liver, where it is uncovered by the peritonzuno, is in close contact with a portion of the Tendow of the Diaphragna; alike uncovered by,

priloneum, around this place of contact is reflected the peritoneum, and forms, what is called, the boronary, ligament,

The peritoneum is or flected from the Deaphagen, to each side of the Liver, and forms its right and left lateral ligament,

The posterior part of the right below of the Live, is found in contact with the right hid neg, white the left his an the lefter end of the colon, papers in mediately under the Live and in contact with it and the late bladder, the latter of which of two gives it a yellow appearance, after

The commencement of the Duckenum list, also, in contact with the Sale

death,-

he just with of the velocity factor of the second s

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bladder; and it froquetty, in like monmer with the bolow, found linged with bile, This brown continues its course under the right lots of the Liver until it makes its turn, at which take, it is in contact with the

Who depend a dall, the Sigumentum forms, in the adult, the Sigumentum Fires, which, paping along the wader concar surface of the Sive opposite to the broad Suspensory, on the upper convex surfaces, forms the temblicate Hipure. This jipure and the falciforms ligament, deserving from the Deapher

rayme, divide the Live, into its Two quat right and left lobes, There is running, acrep this figure another,

forming with it right angles. This is called the hausuness fifure, It me

crives all the principle vefsels of the Liver. In it, we See the Arteria Scepation and Time Portarum entering the Liver, and the Sdepatic duct, passing out. Near the middle of this figure we observe two prominences, which have received the appellation of Borto or gates; hence, the name of Tena Hortas= um has been given to this view, which Supplies the Liver with fraterials for the Scenetion of bile. This view divides into Luo rectangular branches, which constitute the sinus of the True Jon= tarum, and accupies the chief Rait of this fifsure. These vefsels, Tiz, depatie artery, Tina porto, and Biliary duct, in common with clives and absorbents, are inveloped by cellular Substance, which receives a partial covering from the Pritoneuno, and is Called

the Capsule of Glissaw, and by him, it was supposed to possess muscularity. This cellular investment proceeds with these vefsels throughout their various ramifications in the substance of of the Liver , -Besides the Two great lobes of the Liver formed by the umbilical figure and falciforno liqument, there are several Smaller ones .- One of these, denominated the Lobulus Spigelie, is Situated be = tween the posterior part of the Fransverse figure and the Vena cava; belonging more particularly to the right side, it receives a small blood vepel from

the brue porter, a process of the Lobulus Spigelie forms the Lobulus Candatus,

The Gobalus Quartus or anonymous is found Situated between the

umbilient fifters and the depretion for the reception of the Gall bladders, On the posterior margin between the left Lobe and the Sabulus Mighli and right lobe of the Liver, is observed a Juleus, called the posterior fifters. It gives bedgement to the Ductus Persons. which her find, in the Audit, degenerated which we find, in the adult, degenerated isto a cond.

There is serve, in the Live a Fourth figure, which is designed for the reception of the great ascending Cava and is distinguished from the rest by the name of Figure 1 true Casa and is found paging between the Schulus Spigelis and the posterion that of the right later. After the prosterion panels, we can naturally thought to the consideration of these bloods suffer to the consideration of these bloods suffer to the stand of the Sione. The first and of the first and of the first and of the first and of the

important of which, is the Idepatie arting, This is a very considerable hanch of the balian and as before suggested, it penetrales the Liver at the great hansverse fifsure .- previous to its division and rutrance into the Liveo, it gives off branches which go to Supply the Cylorie aifice of the Stomach, the Duodenum and Sancreas, thesides, Several Small branches paps from it to the time plate. This artry com municales with the Supatio views, Bilian, duct, and trua portaruno, as has been as= certained by injection of It enters the Live and ramifies minutely in its Substances The Tona por tariow, which constitutes the great preculiarity of the organ

the great preculiarity of the organ now under consideration, inter the Siver at its pater, inveloped in

thicks division of the acting at he great of power the agent hanch which show with the largest thin branch which ye are to the stands brand grove to the largest thing branch brand grove to the largest which is called the largest which is called the largest time of page 130 1 I bid

ina hata, The he are con

Glipans Capsule, in common with ale the vepres within that Shooth, This vefsel is composed of all those trius which corrispond to the baliac, the Superior and inferior meforn truce artires, ex= ceft those of the Supatio artery. These trius all uniting, i, E, the great and Small meferature the former consisting of those him which return the blood from the Small Intestines, adding of The Smide dlamand right colie trius, passing over the Duode num and postrios to the Ganereas, it receives the great Aplenie hims which previously received The contents of the Gastro- Epiploie and Coronary times, with the lower mes= entine, which is composed of the Internal & amorrhoidal and left Colice Krins, These trings, as above Stated, mitro into One Common trunk, Called

the lina porto. This great trunk receives also the Pancreatico = duodenstis and Cystic Veins. Immediately, on the entrance of the lina porto, into the Liver, it divides into Two great banches which go off nearly at right angles, to form, what is called, the great sinus of the Vina Jentarum .- The right branch of This division is the Shortest and layest. it divides into Three Smaller branches, which ramify minutely in the sub-Stanes of the right libe of the Liver. The left hanch is condiderally longer and proceeds to the extrat of the great Sinus; mas its and it is connected with the umbilical ligament, already

mentioned. This banch, like the right, also ramifies minutely in the Sut-

- Stance of the Liver . The Voua Portamen, after taking upon itself the office of an arting in conveying the materials for Secre = tion, and secreting the bile, emplies itself into the Fra Cauce hepatica, The Poris biliani conveying the bite from the acini of which the Live drines to be complesed, gradually col= leet themselves into larger branches, untile they unite thems dies into Two greater ones, corresponding to the different lokes of the Liver these again write, and the depatie or great exerctory duct of the Liver. These Three great to Isels are Situated in Such a manner, with regard to each other, that the Biliary west is anterior; the Vina Portag posterior; and the arting to the left of them.

Thase Visius, which correspond to the Arteria depatica and Vina Portaruno, unite at the superior part of the Liver, and form the Three great trunks · Some times but Two, called the Stepatic Fries, These being simply them= selves into the ald ominal Cava. This great refsel receives the blood of the Ridneys and inferior extremities; it runs up in a fifture, observed tow the posterior Surface of the Sione; and im mediately previous to its presental. ing the Diaphragno, receives the Sdepatie Frinds - It is, some times, completely en= veloped by the Liver, more particulary the Spigelian lobe.

The Kerns of the Live are derived from the Similarian langtions of the of the great Sympathibe or Inter-costal. These Ganglions furnish the

from which from the Solar Slexus, from
this places proceed a number of small
provous thereof which go a form the
potword, thereminated the patie places.
These places to situated behind the the
mach and above the Dancrost, complete
surround the sepate witey, and
true porte, and proceed with there
in their minute ramifications, through
out the substance of the Live. They
are also are empanied by several nerve
your thereof from the stomachie pleans,
formed by the Partagues.

The Lymp haties of the Live are cetermy, necess, and have been this ided into deep seated and Superficial, which firely communicate with each other, The deep seated while and enter the Thypacie duct in the abdomen, The Superficial unite and enter the

same duct in the Thorax. The intended limits of this essay, will not permit me to suter into the considerations of the minute Structure of the Liver, nor do deoncein it herefray, suffice it to say, the parenchy ma of the Livre, when presented to view, exhibits the appearance of a readish hown colour, and when cut into, a moderately firm consistence. On the concave Surface of the right lobe of the Liver is observed a pit or depression, in which is Situated The Gall bladder, which may be con-Sidered the common preservoir for The reception of the Secretion of the Sione. It is of the Shape of a Pear, and gen = stally contains from one, to one and a half ounces of bile; it possesses a long curved neck, bending in such a man = ner whom itself, as sometimes, when

the book bladder is very much distruded with bile, to form an acute angle, so, as to prevent the entire passage of its acrid fluid contents into the bystic duct; This is the canal through which passes the bile, from the Gall bladder to the Sepatic duct. The union of these Two dusts forms the Ductus communis chotedochus, large than either of the former, and is about Three Inches in bugth, It proceeds through a small portion of the Sancreas and a little to the right of the artena Depatica, printrales The muscular coal of the Duodenum, in which it proceeds from half to nearly an Inch before it pierces the Villous cout, to open into the cavity of the Intestine. The preculias rout of this duat, prevent the retigrade move ment of the bile. This dust when passing the Sancreas generally receives

The duct from that gland, in which case, the stepatic and Panenatic secretions become mixed in the common duct, and are discharged in that slate, into the cavity of the Ductement, in some instances, however, this is not the case. The Panenatic duct intering the Guodenum by a distinct orifice.

The bile, after being secreted by the Live, is conveyed from that organ be, apprepriate ducts to the Duodinum, when it is distinct to speed a very sensible change upon the contents of the thete times and to increase their natural peristattice metions.

The lite is a visciel bitter fluid frequently varying in celoar. Sometimes a granish, but almost already of a hounish yettow; at other times it is without colour. To the indefatigable presents of Mer Thurand

and to Chypnistry, that prolific Source of improvement, we are indetted for a knowledge of the constituents of human hile. It is composed, as shown by, iller Thenards experiments, of water, a yeleow insolnable malle, Albumen, Resin, Soda, Phasphate of Soda and Line; Sulphate and Muriate of Soda and Bayd of from. tothing determinate has been adsentained in regard to the nature of the Panerealic Scretion. To the observations of Meritudges, we are indebted for the only information we possess respecting it. Ide found it to he a colour less liquid, Slightly saline to the taster by evaporation Muriate of Soda was obtained, and the same Salt was indicated also, by the exitate of Silver. Hener, we may conclude it to be analofous in composition, to Saliva. In accordance with the course we have

adopted, we are next brought to the consideration of those diseases which are from a diseased state of the Siver, a which dispend for their existence, a form a deranged state of that organ. In doing, this I shall not confine myself to any particular hostological area upomal, but fred of thism in Sucception, as they may, occur to me.

The Liver, in common with very other part of the living system, is subject to in flam makers, which, by, authors, has been dicided into electe and Chronic, It is the former, that falls under our immediate consideration; of the latter, I that day, but little.

estate depaths may be defined heplanmatory from tension and poin in the right stepachundrium, sometimes from out like the bleursy, but generally

Obtuso; The pain extending to the Clavicle and top of the right shoulder, difficult lying on the left side, dyspinea, dry cough, bomiting and hiceough," to This we may add, a joundiced appear = ance of the Skin and eyes. They three latter symptoms, however, are not constant allendant whom inflow mation of the Liver, as some practical writers have observed; but only occasionally accompany that disease, as experience has fully shown. to the above discription may be added, a frequent, strong, and hard pulse, high colound wine, a white dry tongue, Sometimes yellow. In this disease, the bowds are generally con-Stipaled, the Stools clearly undicating a Ole feetion biliary secretion, When faundice appears, as a symptom

When foundier appears, as a symptome in this disease, it is every to the formation of Tumers in the Liver, which props on

the Ductus communis choledochus, the duct Of the Gall bladder, the Hepaties dust, or the poris biliarie; Thus preventing the papage of bile into the Duodenson, it is therefore absorbed, and produces, in proportion to the degree of obstruction, either jaundice or the journalised appravance, we some = times observe in depatitis. Dr bullen supposes in flammation of the Live to find its origin, in some of the following causes: External violence, applied over the Situation of the Live; certain passions of the mind, exciting the arterial system; molest exercise, acting whom the same frieneiple: Intermitted and Nemetteral Fevers, and the internal and external application. of cold; Here we have the same cause producing Achalilis, that produces Shows monia, hence, Dr. bullon remarks, we in Some instances have the Two diseases joined

together, to these he adds tracious solid Concretions, or collections of liquid matter. I have here Simply Enumerated Dr. bullengs causes of Supatitis, without pretending to determine which is the most frequent cause of that disease, or to account for the particular manner in to hich they act. The principle indications to be fulfilled, in the treatment of acute Inflammation of the Liver, are the reduction of preturnalwal recitement, and the restoration of the natural healthy, functions of that organ. The remedy which naturally occurs to us, as hist calculated to answer the first indication, is blood betting carried to an retral proportionate to the strength of the pulse and violence of the disraso .-As long, in fact, as the pain continues in the side and the pulse is full and Strong, blood letting, Says Dr baldwell,

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is the any remedy on which we can ruly. Bleeding however should not con-Stitute our only remody, in Stage of the distase. Durgatives, in the mean while, should be resorted to perely, and balomel, the one on which we should place mest confidence. Is quicken its action, we may combine with it, Salah. The Salino catharties are also excellent pungatives, when our object is to reduce bascular action, and Should therefore not be neglected, in this State of spects ment, Enemand may here be resorted to, with much benefit and relief to the patient. As anxilfang to these means, the antimonial preparations come in as very useful. The best of which is the Mithale of Sotath in combination with Emetic Tartar, in The form of the well known titrous antimonial pow=

Enelle Tartar in the from at the

dre. It assert the Second in deather, Seching, capping, and after further, the Influently reduced. Baston applied over the progress of the Lover, more fail to facilitate the cure. Blisters however, if presented to at les engly a privide and previous to the reduction of arterial excitement, always prove a Source of considerable Mischif.

Should these means from imfficient, throwing should be adminished with a frew to Julia nation of the distribution of encits catheris, it should be calculated in combination with opicing. The believe of General forms of the stream of the stream from the stream of distracts, the this delease, that the meccurial action he quickly established, it ought therefore to be at ministract with a liberal hand. In freaking of the whiley of Moreovery, on I departies I that men

remark that " well other moder of lead ment, in confirmed depaths, are only feelle temperings, or dangerous tamperings.

on their remedies, in conjunction with the strict observance of the untip blogistic regimen, rests the breakment of acute despolition

The by implems schick Characterie the Meate, also dishinguish Chronic Stopatitis, but in the little disease, they are generally milder in digree and see also accompanied with more or less enlargement of the Liver

The causes of this kind of decangement in the Liver, are those, which kind to diminish in forer the circulation of the trans pertar une such as the termittent from Intermence, see extire that, and a section by and indolent course of Life.

The headment of this disease consists, in secasional blacking, the upplications of lups, Spun, and blisters, to the right

Aypochron drium, the latter Rept constantly open by the use of blistering vintment. ed gentle mercurial Byalism continued for Some time. The titrie acid is exhibited, in This affection of the Liver, with decided and Superior advantage, particularly, when the Lystem is too much debititated in in other respects unfit, to undergo a mercurial course. Exercise, in this clisease, is of Epential Service and should not be neglected. Mamorrhoids and edscites are more frequently connected with a deranged state of the Live, Than we are awar of. This is very intelligable on a little reflection. The Live, in a Schirus State, denies to the blood, from the lower Litestines, a free passage through that riscus, whomer the Find from the Recture become distended and en = larged, burst and discharge their contents. the same obstruction to the possage of the blood through the Live, giving rise to a preturnatural

distention of the blood refer to of the abdones in gen real, produces an increased secretion of Lerum into that cavity, horner the formation of Asciles of Dysentery and Cholera Morbus, primarily, arising, from Intestinet irritation, some or latter entends itself to the Live, involving the whole biliary, apparatus. It is thus we have diseases, originally, Intestinal, kept up for some time, by a decanged state of the Live, Dyspepsia we not unfrequently find supported or aggravated by depatie desangement, il amatemesis, in like man= ner, we observe connected with a disordered state of the Liver, whus might we go on, were it necessary, enumer= ating disease after disease, in some way connected with the Liver; but such acourse, we are persuaded, is entirely unnecessary . With Hickorand we belieux, " that a part belongs to the department of a Gland when it partakes in the motion affecting, the latter, during, the process of Secretion or when it if employed in functions subscirrent to that of The Gland, Thus, one may say, that the Spleen and

a from a latter rate of all to the Lance

most of the riserra of the abdomin ar of the department of the Live , since they furnish it with blood, on which to act. The Live is also comprised in the sphere of activity of the Duodenum, since the distention of that Intestine irritates it, de termines a more copious flowof its fluids, and a more abundant secretion of bile; In the above remarks, we have clearly presented to view the extensive connection of the Liver and the consequent liability of that organo, to frequent derange ment. If in truth, almost any of the abdominal Viscera be made the subject of disease, they im= plicate; more or left; the organ now under con= sideration, which, from its importance in Siluation and function, sooner or latter, brings into sympathy the whole system.

act Madien is also temporation the sphere of activity the returning connection of the Siever and the consePaperd March 9th 1824 19. 8. H Dean South Supatrice St Alewing